

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/12394

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H04B1/40, G06F3/00, H01Q1/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H04B1/40, G06F3/00, H01Q1/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 10-340142 A (Kokusai Electric Co., Ltd.), 22 December, 1998 (22.12.98), Figs. 1 to 3 (Family: none)	1, 2 3, 4
X A	JP 2002-217800 A (International Business Machines Corp.), 02 August, 2002 (02.08.02), Figs. 1, 2; Par. No. [0026] & US 2002/0113741 A1	1 2-4
A	JP 2001-337741 A (Toshiba Corp.), 07 December, 2001 (07.12.01), Fig. 2 & US 2002/0002061 A1 & CN 1326123 A & TW 505843 A	3, 4

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search
18 December, 2003 (18.12.03)

Date of mailing of the international search report
13 January, 2004 (13.01.04)

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Japanese Patent Office

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